

(FILE 'HOME' ENTERED AT 14:22:04 ON 08 AUG 2003)

FILE 'REGISTRY' ENTERED AT 14:22:23 ON 08 AUG 2003

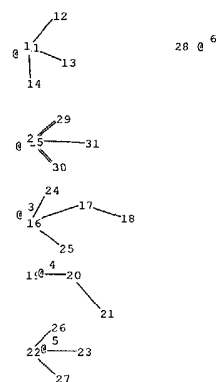
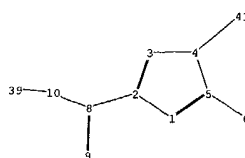
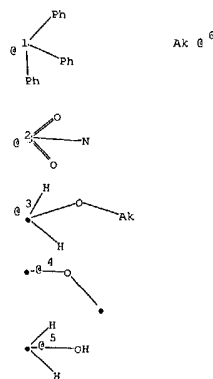
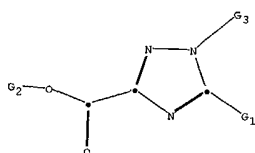
L1 STRUCTURE UPLOADED
L2 0 S L1 FUL
L3 STRUCTURE UPLOADED
L4 32 S L3 FUL
L5 32 S L4 AND CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 14:24:44 ON 08 AUG 2003

L6 15 S L4

FILE 'STNGUIDE' ENTERED AT 14:25:06 ON 08 AUG 2003

C:\Program Files\Stnexp\Queries\09980578.str



chain nodes :
6 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 26 27 28 29 30 31 39
41
ring nodes :
1 2 3 4 5
ring/chain nodes :
19 20 21
chain bonds :
2-8 4-41 5-6 8-9 8-10 10-39 11-12 11-13 11-14 15-29 15-30 15-31 16-17 16-24
16-25 17-18 19-20 20-21 22-23 22-26 22-27
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 4-41 5-6 8-9 8-10 10-39 15-29 15-30 15-31 16-17 17-18
19-20 20-21 22-23
exact bonds :
2-8 11-12 11-13 11-14 16-24 16-25 22-26 22-27

G1:H,Ak

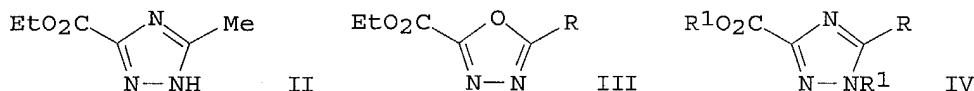
G2:[*1],[*2],[*3],[*4],[*5],[*6]

G3:[*1],[*2],[*3],[*4],[*5]

Match level :

| | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1:Atom | 2:Atom | 3:Atom | 4:Atom | 5:Atom | 6:CLASS | 8:CLASS | 9:CLASS | 10:CLASS | 11:CLASS |
| 12:CLASS | 13:CLASS | 14:CLASS | 15:CLASS | 16:CLASS | 17:CLASS | 18:CLASS | 19:CLASS | 20:CLASS | |
| 21:CLASS | 22:CLASS | 23:CLASS | 24:CLASS | 25:CLASS | 26:CLASS | 27:CLASS | 28:CLASS | 29:CLASS | |
| 30:CLASS | 31:CLASS | 39:CLASS | 41:CLASS | | | | | | |

L6 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1988:204566 CAPLUS
 DOCUMENT NUMBER: 108:204566
 TITLE: Cyclization of ethyl oxalate N1-acyl amidrazones to
 5-substituted 1,4-triazole-3-carboxylic acid
 derivatives
 AUTHOR(S): Heschel, H.; Stein, J.; Dost, J.
 CORPORATE SOURCE: Sekt. Chem./Biol., Paedagog. Hochsch. "Karl
 Liebknecht", Potsdam, Ger. Dem. Rep.
 SOURCE: Wissenschaftliche Zeitschrift der Paedagogischen
 Hochschule Karl Liebknecht Potsdam (1987), 31(1),
 45-52
 CODEN: WPKLAO; ISSN: 0138-290X
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



AB Cyclization of $\text{EtO}_2\text{CC}(\text{NH}_2):\text{NNHCOR}$ (I; R = Me, Et, Pr, Bu, CH_2Ph , $\text{C}_6\text{H}_4\text{Cl}-4$), with $\text{AcOH}-\text{Ac}_2\text{O}$ gave 75-90% triazolecarboxylate II while cyclization of I (R = Ph, $\text{C}_6\text{H}_4\text{OMe}-4$) with HCO_2H or AcOH gave 53-66% oxadiazolecarboxylates III (same R). Refluxing I (R = CH_2CHMe_2) in $\text{AcOH}-\text{Ac}_2\text{O}$ gave 92% Et 1-isovaleroyl-S-methyl-1,2,4-triazole-3-carboxylate. Dipotassium triazolecarboxylates IV (R = Me, Et, Pr, Bu, CH_2CHMe_2 , Ph, CH_2Ph , $\text{C}_6\text{H}_4\text{OMe}-4$, $\text{C}_6\text{H}_4\text{Cl}-4$; $\text{R}^1 = \text{K}$) were prepd. by cyclization of the corresponding I with $\text{KOH}-\text{Me}_2\text{NCHO}$ while triazolecarboxylic acid IV (R = Me, $\text{R}^1 = \text{H}$) was prepd. by treatment of I (R = Me) with $\text{KOH}-\text{EtOH}$. Cyclization of I (R = Ph) with $\text{KOH}-\text{AcOH}-\text{Cu}(\text{OAc})_2-\text{H}_2\text{S}$ gave 63% IV (R = Ph; $\text{R}^1 = \text{H}$). Some reactions of II are described.

IT 114336-01-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 114336-01-5 CAPLUS

CN 1H-1,2,4-Triazole-3-carboxylic acid, 1-(hydroxymethyl)-5-methyl-, ethyl
 ester (9CI) (CA INDEX NAME)

